AMENDMENTS TO THE CLAIMS

1. (Currently amended) A luminescent device comprising a gaseous tritium light source (GTLS) which provides a light output of pre-determinable intensity, wherein the device is sized and shaped to be housed in a sample holder of light measuring apparatus.

2. (Original) A device according to Claim 1, wherein the GTLS comprises 10 to 20 mCi of tritium.

3. (Previously presented) A device according to Claim 1, wherein the GTLS is located with an outer casing having at least one optically transparent or translucent portion.

4. (Original) A device according to Claim 3, wherein the outer casing is steel.

5. (Previously amended) A device according to Claim 3, wherein the transparent or translucent portion comprises a neutral density filter.

6. (Previously amended) A device according to Claim 3, wherein the transparent or translucent portion is formed from glass or plastic.

7. (Previously amended) A device according to Claim 1, wherein the device further comprises colouring means to alter the colour of the light output of the GTLS.

8. (Previously amended) A device according to Claim 1, wherein the GTLS is held within a housing, the housing being located in the outer casing.

9. (Canceled)

10. (Currently amended) A device according to Claim [[9]] 1, wherein said apparatus is selected from a group consisting of a luminometer, a fluorometer, a spectrophotometer, a

scintillation counter, a photomultiplier, an avalanche photodiode or a CCD camera.

11. (Previously presented) A device according to Claim 1, wherein said device comprises a scalebar graticule.

12. (Previously presented) A device according to Claim 1, wherein said device comprises a filter array.

13. (Previously presented) A kit comprising two or more luminescent devices according to Claim 1, each of said devices providing a light output of a distinct intensity to the other devices of said kit.

14. (Previously presented) A kit according to Claim 13, further comprising a magnetic handling tool and wherein each of said devices includes a magnetic component.

15. (Currently amended) A kit according to Claim [[12]] 13, comprising three or more devices, each having a light output of a distinct intensity to the other devices of said kit.

16. (Previously presented) A light measuring apparatus comprising a luminescent device as claimed in Claim 1, housed in a sample holder of said apparatus.

17. (Previously presented) An apparatus according to Claim 16, which is selected from the group consisting of a luminometer, a fluorometer, a spectrophotometer, a scintillation counter, a photomultiplier, an avalanche photodiode or a CCD camera.

18. (Previously presented) A method of analyzing a sample, said method comprising;

i) calibrating an apparatus able to detect light output using a device as claimed in Claim 1;

ii) inserting said sample into the calibrated apparatus and obtaining a reading thereof.

19. (Original) A method as claimed in Claim 18, wherein the sample comprises living cells.

20. (New) A method for calibrating an apparatus according to claim 16 comprising the steps of:

(a) placing a luminescent device comprising a gaseous tritium light source, which provides a light output of pre-determinable intensity in the apparatus;

(b) measuring the pre-determined intensity; and

(c) adjusting the reading of light output of the apparatus to the pre-determined intensity of the light output of the luminescent device.